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***NETL* REPORTS:**

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NETL Researcher Presented with Prestigious Technology Transfer Award *Chris Guenther Awarded for Commercialization of Innovative Chemical Engineering Software*

Dr. Chris Guenther, a research group leader at the U.S. Department of Energy's National Energy Technology Laboratory (NETL), was recently presented with a 2008 Federal Laboratory Consortium (FLC) Excellence in Technology Transfer Award during the FLC National meeting, which was held May 5–8 in Portland, Ore.

The award was presented to Dr. Guenther for his work in commercializing NETL's Coal Chemistry Module, a chemical engineering software. The Module, developed by Dr. Guenther and colleagues, allows investigation of coal reactivity, and, used in conjunction with other models, can be applied to a variety of coal gasification processes that are essential to the continued use of domestic coal. The Module incorporates into computational fluid dynamics (CFD) models detailed reaction mechanisms for various properties, such as gasification and combustion, of different bituminous, subbituminous, and lignite coals. The technology transferred to ANSYS, Inc., a global supplier of CFD software products, and has applications for KBR and Southern Company as well.

Dr. Guenther was selected for this award because of his commitment to commercializing the technologies he helped to develop. He is a member of the Computational Science Division of NETL's Office of Research and Development, which works to provide technical leadership in scientific computing, networking and display technologies. The division serves as an evaluation site for models developed by external research partners and investigates issues such as global climate change, infrastructure protection and watersheds remediation through simulation technologies. Additionally, Dr. Guenther and other scientists conduct laboratory experiments to verify and improve models. Dr. Guenther's specific interest is in multiphase flow research.

Originally from Annandale, Va., Dr. Guenther is currently a resident of Morgantown, W.Va.

The Excellence in Technology Transfer Award recognizes researchers who have helped to commercialize new and innovative technologies. The award is presented annually to federal employees who have accomplished outstanding work in transferring to industry a technology developed within their laboratory.

The Federal Laboratory Consortium—a national partnership of more than 700 major federal laboratories and centers, parent departments, and agencies—is a leading entity in maximizing collaborative research and the transfer of federal technologies to enhance the socioeconomic well-being of the nation in the

global marketplace.

NETL is one of the Department of Energy's national laboratories. The laboratory manages and implements a broad spectrum of energy and environmental programs. It employs approximately 1,100 federal employees and support-service contractors at sites in Pittsburgh, Pa., Morgantown, W.Va., Tulsa, Ok., Fairbanks, Alaska, and Albany, Ore.

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